

Refinery Instruction Updates

Safety Topic of the Month Richmond Refinery

February 2010



Refinery Instructions (RIs)

Refinery Instructions are periodically revised and updated to better support our business and safety objectives.

This Safety Topic of the Month will review revisions to ten of our RIs with the intent of making the revisions easily accessible and provide a Refinery Wide learning opportunity.

- RI-314 Protective Clothing and Safety Equipment
- RI-366 Contractors
- RI-370 Management of Change
- RI-389 Electrical Safe Work Practices
- RI-392 Heat Illness Prevention Plan
- RI-400 Emergency Plans and Procedures
- RI-506 Refinery Hazardous Waste Management
- RI-601 H2S Handling Equipment

RI-314 – Protective Clothing and Safety Equipment



Revisions: [Section 7.1]

- Added hard hat color assignment: Red for Safety Personnel.
- Corrected helmet color references: Other Plant Protection personnel wear black helmets; Fire Brigade members wear yellow helmets.

Intent of the Revisions:

To document current hard hat color assignments.

Revisions: [Section 7.2]

- Clarified that a face shield AND safety glasses must be worn when using striking tools.
- Added "welding helmet/hard hat combination" to the approved list of head and face protection for electric arc welding.

Intent of the Revisions:

To clarify task-specific PPE requirements.



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RI-314 – Protective Clothing and Safety Equipment (continued)



Revision: [Section 7.9]

- Created a new section 7.9: States the requirement to wear personal hydrogen sulfide monitors when working in process areas (including the tank field), and includes policies and procedures related to:
 - Proper Use
 - Maintenance
 - Testing

Intent of the Revision:

 To document the Refinery's policies and procedures related to wearing personal hydrogen sulfide monitors.



Personal Hydrogen Sulfide monitor classroom training was completed in 2009 for all Refinery personnel.



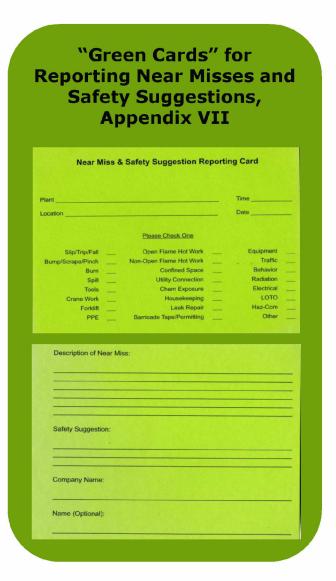
RI-366 Contractors

Revisions:

- Defined Process Safety Management (PSM) Representative roll regarding Contractor Office Audits.
- Appendix VI Contractor Office Audit form, clarified and condensed Office Audit Questions.
- Replaced Appendix II with current version.

Intent of the Revision:

- Clarification of PSM Representative Rolls and Responsibilities in the Contractor Office Audit process.
- RI updated to reflect the current Near Miss
 & Safety Suggestion Reporting Card "Green Card" Appendix VII.





RI-370 - Management of Change (MOC)

MOC is one of our key **Process Safety Elements** and helps us ensure that changes are properly:

- risk assessed,
- reviewed, and
- approved by the right people

Revision: [Section 3.0]

The following new triggers have been added to what requires MOC.

- Temporary operation of equipment outside specifications (example: piping at or below flagged thickness)
- The following "guidance" documents which are used to maintain compliance with the requirements of the Cal/ARP and RISO program are now subjected to the MOC requirements:
 - Management of Organizational Change (MOOC), RI-382
 - Inherently Safer System (ISS)
 - Human Factors Program Documents



RI-389 - Electrical Safe Work Practices

The RI-389 revision has been certified as current and accurate as per NFPA-70E 2009 Edition.

Review If report

IF Report Energized Switchgear



NEW RI-392 Heat Illness Prevention



Plan

- Computer Based Training will be rolled out in Q2 2010 for Employees and Supervisors. The CBTs will cover the following:
 - 1. How to identify, evaluate, and control environmental and personal risk factors for heat illness.
 - 2. The importance of frequent consumption of small quantities of water.
 - The importance of acclimatization.
 - 4. How to identify the different types of heat illness and the common signs and symptoms of heat illness.
 - 5. The importance of immediately reporting to your supervisor the symptoms or signs of heat illness in yourself, or in co-workers.
 - 6. The procedures for responding to symptoms of possible heat illness.
 - 7. The procedures for contacting emergency medical services.
 - 8. The procedures a supervisor is to follow when an employee exhibits symptoms consistent with possible heat illness, including emergency response procedures.





RI-400 – Emergency Plans and Procedures



Revisions:

RI-400 has been adjusted to include the most up-to-date titles, contacts, and references, for the refinery:

- Titles such as RSC have been changed to RSL, Shift Supervisor to Shift Team Leader, etc.
- References to certain refinery instructions that no longer exist have been adjusted or deleted.
- Current refinery and agency contact information has been revised.

You can review all these changes and read over the instruction at the link below.

http://www.ric841.chevron.net/referenc/REF_INST/RI-New/ri-400/ri-400.pdf

DO YOU KNOW WHAT YOUR ROLE IS DURING A REFINERY EMERGENCY?

RI-506 - Refinery Hazardous Waste Management

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Revision:	Intra Refinery Trucking Permit - MFG-3131
	Date Needed: Job & Regin 취
Ri-506 has been updated to include	Form must be completely filled out to process request. ABUSection Plant Source (Tank, line, vessel, collecton point, etc.)
instructions for completing	Cost Center Meximo Number Stem Number
the Intra Refinery Trucking	Material Physical State Physical State Liquid Sludge Solid Estimated Quantity MSCIS Number(s) Meterial Temp.
Permit , MFG-3131 (RI-506	Ambient "F Special approval may be required to access restricted roads or areas of the rethiery. Contact the Hez Waste Liquid Specialist eat 2-2294 for details. Job Coverage
9.0). Be sure to include all	Will a laborer be working with the driver? (Labor must be provided by operations) Deys Only Around the clock Weekends Specific Time 10 10 10 10 10 10 10 10 10 10 10 10 10
Known Hazards and Safety	Specific Tools Required DI Drum Straper DI Containment Fool DI 1/2 barrel DI Other
Equipment Required!	Type of Container Solids Handling Liquids Handling Small Quantity Select Top Bin
Link to RI-506	Prese Separator Bn
TOP Lessons Learned 7/2008	36 Bol.
Type of Vacuum Truck Any 70 Bt 36 Bbl. 120 B	Bbl. Stainless Any 2" 3" 4" 6"Pipe
PPM	Components %
Known Hazards	<u> </u>
Pressure PSI Other	% %
Safety Equipment Required Laborer(s) Only	All Personnel Involved Face Shield Goggles Rubber Boots
Safety Equipment Required	SCBA / Fresh Air Rubber Gloves Other A/P Cartridge Type
Contact Person	Radio Channel / Pac-set # or Pager # Telephone Number / Extension
Supervisor's Signature	Radio Channel / Pac-set # or Pager # Telephone Number / Extension
DOC ID	10

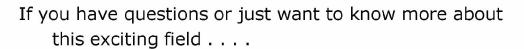


RI-601 H2S Handling Equipment

RI-601 Provides guidance for the construction of new H2S handling new facilities. Provides guidance for repair and maintenance of existing H2S handling facilities

Revisions:

- Added new Corporate Pipe Class ref's
- Document references changed to reflect new CES home
- Added "example process streams" to H2S categories
- Valve packing requirements updated to ultra low or zero emission systems



... feel free to contact Ron Post @ 2-5170





Review TOP Lessons Learned

Learning from our past incidents will help us prevent them in the future. Please take a few minutes now to review the TOP lessons learned.

TOP Lessons
Learned



Richmond Refinery 2010

Every Task, The Right Way, Every Time.